

12/06/2023

Howard County Dept. of Public Works
Sonya Williams
8900 Greenwood Place
Savage, MD 20763

Subject: HoCo Distribution/ASI #71775

Dear: Sonya Williams

Enclosed please find the test result(s) for sample(s) received at Analytical Services, Inc. (ASI) on 12/05/2023.

This report consists of five (5) pages, including this cover page. The results reported herein relate only to the sample(s) included in this report. These results were generated under ASI's laboratory quality system, which is in accordance with the NELAP (TNI) standard. Deviations, if any, are noted. This report shall not be reproduced except in full without the written approval of the laboratory.

Please note: A matrix spike sample was received along with the field sample from the Elkridge WPS site, but due to backordered EasySeed, was not analyzed. At the client's direction, the matrix spike sample was disposed of properly.

Thank you for using ASI for your testing needs. For additional information regarding this report, please contact ASI Client Services at 800-723-4432.

Sincerely,
ANALYTICAL SERVICES, INC.



Harry D. Christman, PhD (fn)
Technical Director

Laboratory ID: NH-ELAP #2065



**USEPA Method 1623.1 Analytical Report**Howard County Dept. of Public Works
Sonya Williams
8900 Greenwood Place
Savage, MD 20763

Analysis Start: 12/05/2023 11:24

Analysis End: 12/05/2023 17:28

Analyst: Aimee Benjamin

ASI Sample ID No.: 71775-01

Method 1623.1 Batch No.: 2546 1623.1

Cryptosporidium QC ID No.: 5848

Giardia QC ID No.: 5849

Sample Information	
PWS or Client Name:	Howard County DPW
PWS ID:	013-0002
Project or Facility Name:	Howard County Distribution
Facility ID:	No Data
Sample ID / Collection Point Name:	Route 40
Sample Collection Point ID:	Route 40
Matrix:	Water-Finished
Method:	EPA 1623.1
Analysis Type:	Field
Date / Time Collected:	12/04/2023 10:46
Turbidity (NTU):	no data

Volume and Filtration Information	
Filter Type:	Gelman HV
No of Filters Used:	1
Volume Filtered (L):	11.02
Packed Pellet Volume (mL):	0.10
Total Resuspended Concentrate Volume (mL):	5.0
Total Resuspended Concentrate Volume to IMS (mL):	5.0
Number of Sub-samples:	1
Total Sample Volume Examined (L):	11.02

Analytical Results		Matrix Spike Results		
Analyte	Total (Oo) cysts/L	Recovered (Oo) cysts/L	Spike Dose (Oo) cysts/L	Percent Recovery
<i>Giardia</i>	0.00	N/A	N/A	N/A
<i>Cryptosporidium</i>	0.00	N/A	N/A	N/A

Method: Samples processed, stained and examined using USEPA Method 1623.1: Cryptosporidium and Giardia in Water by Filtration/IMS/FA (USEPA Jan. 2012; EPA 816-R-12-001) (ASI SOP 224-9).

USEPA Method 1623.1 Analytical Report

Howard County Dept. of Public Works
Sonya Williams
8900 Greenwood Place
Savage, MD 20763

Analysis Start: 12/05/2023 11:24
Analysis End: 12/05/2023 17:34
Analyst: Aimee Benjamin

ASI Sample ID No.: 71775-02

Method 1623.1 Batch No.: 2546 1623.1
Cryptosporidium QC ID No.: 5848
Giardia QC ID No.: 5849

Sample Information	
PWS or Client Name:	Howard County DPW
PWS ID:	013-0002
Project or Facility Name:	Howard County Distribution
Facility ID:	No Data
Sample ID / Collection Point Name:	Elkridge WPS
Sample Collection Point ID:	Elkridge WPS
Matrix:	Water-Finished
Method:	EPA 1623.1
Analysis Type:	Field
Date / Time Collected:	12/04/2023 10:18
Turbidity (NTU):	no data

Volume and Filtration Information	
Filter Type:	Gelman HV
No of Filters Used:	1
Volume Filtered (L):	10.94
Packed Pellet Volume (mL):	0.50
Total Resuspended Concentrate Volume (mL):	5.0
Total Resuspended Concentrate Volume to IMS (mL):	5.0
Number of Sub-samples:	1
Total Sample Volume Examined (L):	10.94

Analytical Results		Matrix Spike Results		
Analyte	Total (Oo) cysts/L	Recovered (Oo) cysts/L	Spike Dose (Oo) cysts/L	Percent Recovery
<i>Giardia</i>	0.00	N/A	N/A	N/A
<i>Cryptosporidium</i>	0.00	N/A	N/A	N/A

Method: Samples processed, stained and examined using USEPA Method 1623.1: Cryptosporidium and Giardia in Water by Filtration/IMS/FA (USEPA Jan. 2012: EPA 816-R-12-001) (ASI SOP 224-9).

CHAIN OF CUSTODY RECORD

Ship to: Analytical Services, Inc., 130 Allen Brook Lane, Williston, VT 05495, Attn: Sample Management
Phone: 1-800-723-4432 or 802-878-5138 • Fax: 802-878-6765 Web site: www.analyticalservices.com

Submitted By: <u>Little Patuxent WRP</u> <u>Howard County Gov</u> <u>Sonya Williams</u> <u>8900 Greenwood PL 20763</u> Phone: <u>410-313-1203</u> Email: <u>snwilliams@HowardCountyMD.gov</u>		Report To: <u>Howard County Gov</u> <u>Sonya Williams</u> <u>6751 Columbia Gateway Dr</u> <u>Columbia MD 21046</u> Phone: <u>410-313-6370</u> Email: <u>snwilliams@HowardCountyMD.gov</u>	
Project Name	<u>HOCO Distribution</u>	Invoice To: <u>same as above</u> Phone: _____ Email: _____	
Job Site			
P.O. Number			

Sample Identification*	Sample Collection			Sample Matrix							Analysis Requested	Lab Use Only
	Date (Start)	Time (Start)	Sampler Initials	check one								Temp (°C)
				Water - Raw	Water - Finished	Waste Water	Biosolids	Soil/Sediment	Other			
R+40	12/4/23	10:46 AM									M 640 Field	11.9

*Sample ID should match ID written on the sample containers and data sheets. Sample ID will appear on the report for identification.

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
<u>David Ball</u>	<u>12/4/23 11:15</u>	<u>David Ball</u>	<u>12/5/23 1005</u>
Field Comments:		Lab Comments:	

CHAIN OF CUSTODY RECORD

Ship to: Analytical Services, Inc., 130 Allen Brook Lane, Williston, VT 05495, Attn: Sample Management
Phone: 1-800-723-4432 or 802-878-5138 • Fax: 802-878-6765 Web site: www.analyticalservices.com

Submitted By: <u>Little Patuxent WRP</u> <u>Howard County Gov</u> <u>Sonya Williams</u> <u>8900 Greenwood Pl 20763</u> Phone: <u>410 313 1203</u> Email: <u>snwilliams@howardcountymd.gov</u>		Report To: <u>Howard County Government</u> <u>Sonya Williams</u> <u>6751 Columbia Gateway Dr.</u> <u>Columbia, MD 21046</u> Phone: <u>410 313 6370</u> Email: <u>snwilliams@howardcountymd.gov</u>	
Project Name	HOCO Distribution	Invoice To: <u>Same as above</u> Phone: _____ Email: _____	
Job Site			
P.O. Number			

Sample Identification*	Sample Collection			Sample Matrix							Analysis Requested	Lab Use Only Temp (°C)
				check one								
	Date (Start)	Time (Start)	Sampler Initials	Water - Raw	Water - Finished	Waste Water	Biosolids	Soil/Sediment	Other			
Elkridge WPS	12/4/23	10:18 AM	AB		✓						M640	1.7
Elkridge WPS	12/4/23	10:18 AM	AB								M640 (Field)	1

*Sample ID should match ID written on the sample containers and data sheets. Sample ID will appear on the report for identification.

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
<u>Dan Bell</u>	<u>12/4/23 11:08 am</u>	<u>[Signature]</u>	<u>12/5/23 1:00</u>
Field Comments:		Lab Comments:	